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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,289	11/25/2003	Philippe Nathan Bamberger	051005-1020	9091
	7590 02/15/200 YDEN, HORSTEMEN	•	EXAM	INER
100 GALLERIA PARKWAY, NW AZARIAN, SEYED H				SEYED H
STE 1750 ATLANTA, GA 30339-5948			· ART UNIT	PAPER NUMBER
			2624	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MO	NTHS	02/15/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)	
	10/722,289	BAMBERGER ET AL.	
Office Action Summary	Examiner	Art Unit	
·	Seyed Azarian	2624	
The MAILING DATE of this communication app	ears on the cover sheet with	the correspondence address	
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a reply rill apply and will expire SIX (6) MONTH cause the application to become ABAN	TION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 25 No.	ovember 2003		
	action is non-final.		
3) Since this application is in condition for allowar		s, prosecution as to the merits is	
closed in accordance with the practice under E	· · · · · · · · · · · · · · · · · · ·	•	
Disposition of Claims			
4)⊠ Claim(s) <u>1-30</u> is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-30</u> is/are rejected.			
7) Claim(s) is/are objected to.		•	
8) Claim(s) are subject to restriction and/or	r election requirement.	·	
Application Papers			
9) ☐ The specification is objected to by the Examine	r. ·	·	
10)⊠ The drawing(s) filed on 25 November 2003 is/a	re: a)⊠ accepted or b)□ o	bjected to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance	. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct			
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached C	Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 1	19(a)-(d) or (f).	
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents	s have been received in App	lication No	
Copies of the certified copies of the prior	ity documents have been re	ceived in this National Stage	
application from the International Bureau		•	
* See the attached detailed Office action for a list	of the certified copies not re	ceived.	٠.
Attachment(s)	4) [T] Intonian (0)	man, (PTO 413)	
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)		fail Date	
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 4/29/04.	5) Notice of Info 6) Other:	mal Patent Application	
- ber reference - see - research	· , 		

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-30, are rejected under 35 U.S.C. 103(a) as being unpatentable over Hartman et al (U.S. patent 7,146,031) in view Katakura (U.S. patent 5,953,500).

Regarding claim 1, Hartman discloses a method of separating and collating mammogram records, said method including the steps of;

scanning at least one radiological film mammogram relating to a patient thereby to obtain at least one digitized image of the at least one film mammogram (see abstract, digital films are processed, anatomic features are used to detect and identification of a film series);

storing the at least one digitized image in a memory (column 6, lines 49-66, digital medical imaging system are stored in a digital image storage system);

providing and scanning a separator film having identifiable features which when scanned identify the film as a separator film, and including positioning the separator film immediately after the at least one radiological film of a patient (column 2, line 55 through column 3, line 5, providing stack of 100 films would contain many cases fro different patient to radiologist, also Fig. 4, column 5, lines 24-36, scanning unit 404, processing

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unit 302, and computer 406, , they can also be provided "separately" or in other combinations. Processing unit comprises a computer-based system for detecting anatomical abnormality, further column 9, lines 22-36, provide method for separating case (films associated to one patient) from another case in an automatic, computerized way);

and repeating said steps of scanning, storing, and providing for the remaining film mammograms of N patients in a film mammogram queue, where N>I (column 12, line 65 through column 13, line 22, refer to repeating);

wherein the digitized images generated subsequent to each scanned separator film are stored separately from the stored digitized images obtained from prior scanned film mammograms (column 7, line 50 through column 8, line 14, all mammogram x-ray that was taken different time, can be stored in digitized form in CAD computer memory).

However Hartman discloses column 5, lines 24-36, scanning unit 404, processing unit 302, and computer 406, they can also be provided "separately" or in other combinations. Processing unit comprises a computer-based system for detecting anatomical abnormality, and column 7, line 50 through column 8, line 14, all mammogram x-ray that was taken different time, can be stored in digitized form in CAD computer memory, but does not explicitly state "collating mammogram records". On the other hand Katakura in the same felid of medical, teaches (column 6, lines 11-24, the sorting information such as the patient ID number is for sorting medical images, and collation code described below is a code for distributing a plurality of sheet s of films, to a plurality bins and stacking a plurality sheet film carrying different medical image).

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Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify Hartman invention according to the teaching of Katakura because it provides medical images, which the recording media can be properly sorted and stored that can be carried out in smaller workstation, which can easily be implemented to an image scanning device such as MRI or CT system).

Regarding claim 2, Hartman discloses column 2, line 48 through column 3, line5, the present invention provide large number of films typically on the order of 100, can be stacked together and fed into the system at one time in a manner similar to high capacity paper copying machines, but does not explicitly state "step of printing out". On the other hand Katakura in the same felid of medical, teaches (Fig. 2, column 4, lines 7-26, the sorting information is information which is added as information necessary for printing when the command code 16 is print or reprint).

Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention was made to modify Hartman invention according to the teaching of Katakura because it provides the sorting information output from laser printer as the latter visible image for better accuracy.

Regarding claim 3, Hartman discloses a method according to claim 2 wherein said step of printing provides a printout which contains location markers indicating anatomical abnormalities found on a mammogram (see claim 2, also column 8, lines 31-60 referred to labeling and marking).

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Regarding claim 5, Hartman discloses a method according to claim 2 wherein said step of printing a printout is effected after said scanning of a separator film in said step of providing (see claim 2, also column 4, lines 15-31, scanning).

Regarding claim 6, Hartman discloses a method according to claim 2 wherein said step of repeating also includes repeating said step of printing (column 12, line 65 through column 13, line 22, refer to repeating).

Regarding claim 7, Hartman discloses a method according to claim 2 further includes a step of inputting wherein patient identifier data are entered (column 2, lines 55-66, large number of films (different patient) are fed into a digitizer, also Fig. 10, column 9, lines 49-60, identification label with a specific patient is paced on the sheet).

Regarding claim 8, Hartman discloses a method according to claim 7 wherein said step of inputting is affected prior to said step of providing and scanning (column 3, lines 47-60).

Regarding claim 10, Hartman discloses a method according to claim 7 wherein said step of repeating also includes repeating said step of inputting (column 12, line 65 through column 13, line 22, refer to repeating).

Regarding claim 11, Hartman discloses a method according to claim 7 wherein said step of inputting includes entering identifier data for every patient having a set of mammograms in the mammogram queue prior to beginning said step of scanning and wherein said step of repeating includes repeating said steps of scanning, storing, providing, and printing (see claim2, also Fig.1, column 3, lines59 through column 4, line 4, identification of suspicious lesions in mammograms).

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Regarding claim 23, Hartman discloses a workstation system for collating radiological film mammograms and other physical records, said system including: a scanner operative to receive and digitize radiological film mammograms from a patient and a separator film carrying identifiable features for identifying the film as a separator film; a collating station for receiving the scanned films from said scanner (see claim1, also Fig. 1, column 4, lines 32-49, viewing station 104).

Regarding claim 24, Hartman discloses a system according to claim 23 further including a display for displaying the digitized images of scanned radiological film mammograms received from said processing means, which is in electronic communication with said display (Fig. 17, column 3, lines 40-42, displaying digitized images in a preferred or predetermined order).

Regarding claim 29, Hartman discloses a separator film according to claim 28 wherein the at least one identifiable characteristic is chosen from among the following, graphical indicia; a marker; a textured edge; and a serrated edge (column 8, lines 31-60 referred to labeling and marking).

Regarding claims 4, 9, 12 and 13 it recites similar limitation as claims 1, 2, 3, 8, are similarly analyzed.

Regarding claims 14, 15, 16, 17 and 18, it recites similar limitation as claims 3, 4, 5, 6 and 7, are similarly analyzed.

Regarding claims 19, 20, 21 and 22, it recites similar limitation as claims 8, 9, 10 and 11, are similarly analyzed.

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Regarding claims 25, 26, 27, 28 and 30, it recites similar limitation as claims 1, 2, 3 and 7, are similarly analyzed.

Other prior art cited

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- (U.S. patent 6,678,703) to Rothschild et al is cited for medical image management system and method.
- (U.S. patent 6,434,262) to Wang is cited for computer-aided diagnosis system and method.
- (U.S. patent 6,227,531) to Guerrero et al is cited for job separation process system and method for distributing print jobs.
- (U.S. patent 5,886,359) to Bringley et al is cited for X-ray detector, detection assembly, and method.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seyed Azarian whose telephone number is (571) 272-7443. The examiner can normally be reached on Monday through Thursday from 6:00 a.m. to 7:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella, can be reached at (571) 272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application information Retrieval (PAIR) system. Status information for published application may be obtained from either Private PAIR or Public PAIR.

Status information about the PAIR system, see http:// pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Seyed Azarian Patent Examiner Group Art Unit 2624 February 5, 2007

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